COMPUTING SCIENCE MAJOR: FALL 2020 GRADUATION PLANNER

Name: _____ Student ID: _____ Date: _____

PROGRAM REQUIREMENT OVERVIEW

A minimum of 120 units are required to complete the Bachelor of Science (BSc) in Computing Science Program. This consists of:

Lower Division (54 - 55 units)
- CMPT/MACM/MATH/ STAT (39 - 40 units)
- WQB courses (15 units)

+

Upper Division (45 units)
- CMPT/MACM/MATH (39 units)
- Elective courses (6 units)

+ General Electives **=** 120 Units Overall

CONTINUANCE GPA: *Students who do not maintain at least a 2.40 CGPA, will be placed* **on probation in the School of Computing Science**. *Courses available to probationary students may be limited. Each term, these students must consult an advisor prior to enrollment and must achieve either a term 2.40 GPA or an improved CGPA.* **Students who fail to do so may be removed from the program.**

LOWER DIVISION REQUIREMENTS (100/200) – 54 - 55 units – Complete all of:

COMPUTING SCIENCE		
❑ CMPT 120	❑ CMPT 276	❑ MATH 151 OR 150
❑ CMPT 125	❑ CMPT 295	❑ MATH 152
❑ CMPT 127	❑ MACM 101 (B-SCI) *	❑ MATH 232 OR 240
❑ CMPT 225 *	❑ MACM 201	❑ STAT 270

* Necessary courses to enroll into most upper division CMPT classes

UPPER DIVISION REQUIREMENTS (300/400) – 45 units:

Requirements for breadth, depth and BSc (next page)

TABLE I: COMPUTING SCIENCE CONCENTRATIONS					
Artificial Intelligence	*Computer Graphics & Multimedia*	*Computing Systems*	*Information Systems*	*Programming Languages & Software*	*Theoretical Computing Science*
❑ CMPT 310	❑ CMPT 361	❑ **CMPT 300**	❑ CMPT 353	❑ CMPT 373	❑ **CMPT 307**
❑ CMPT 340	❑ CMPT 363	❑ CMPT 305	❑ CMPT 354	❑ CMPT 383	❑ CMPT 308
❑ CMPT 411	❑ CMPT 365	❑ CMPT 371	❑ CMPT 441	❑ CMPT 384	❑ CMPT 404
❑ CMPT 412	❑ CMPT 461	❑ CMPT 379	❑ CMPT 454	❑ CMPT 473	❑ CMPT 405
❑ CMPT 413	❑ CMPT 464	❑ CMPT 431	❑ CMPT 456	❑ CMPT 475	❑ CMPT 407
❑ CMPT 414	❑ CMPT 466	❑ CMPT 433	❑ CMPT 459	❑ CMPT 477	❑ CMPT 408
❑ CMPT 417	❑ CMPT 469	❑ CMPT 471	❑ CMPT 470	❑ CMPT 489	❑ CMPT 409
❑ CMPT 419		❑ CMPT 479	❑ CMPT 474		❑ MACM 300
		❑ CMPT 499			

ELECTIVE & BSc REQUIREMENTS:

REQUIRED WRITING
❑ CMPT 105W
❑ CMPT 376W (3 UD units)

REQUIRED WQB	
❑ B-SCI	❑ B-HUM
❑ B-SOC	❑ B-HUM
❑ B-SOC	

BSc CREDENTIAL
❑ MACM 316
❑ Additional course from Tables I or III
❑ Additional course from Tables I or III

TABLE III: COMPUTING MATHEMATICS	
❑ MATH 308	❑ MACM 401
❑ MATH 340	❑ MACM 442
❑ MATH 343	

UPPER DIVISION ELECTIVES	
❑ ANY 3XX/4XX	❑ ANY 3XX/4XX

OPTIONAL REQUIREMENTS:

COMPUTING SCIENCE CO-OP EDUCATION				
❑ CMPT 426	❑ CMPT 427	❑ CMPT 428	❑ CMPT 429	❑ CMPT 430

SUMMARY OF REQUIREMENTS:

Breadth _____ (15)

Depth _____ (12)

BSc _____ (9)

Writing _____ (3)

Requirement	Complete	In Progress	Total	Remaining
Total Units (min 120)				
Upper Division Units (min 45)				
CS Upper Division Units (min 39)				

This is a guideline only. For full regulations refer to the SFU Calendar.

Updated April 1, 2020

SFU FACULTY OF APPLIED SCIENCES

COMPUTING SCIENCE MAJOR: FALL 2020 GRADUATION PLANNER

ACADEMIC REQUIREMENTS

LOWER DIVISION REQUIREMENTS (or equivalents):
- MATH 154/157 and 155/158, with grades of B+ or higher, may substitute MATH 150/151 and 152.
- WQB requirements: Students are required to complete 6 units of writing (W), 6 units of Breadth Science (B-Sci), 6 units of Breadth Social Science (B-Soc), 6 units of Breadth Humanities (B-Hum) and 6 units of Undesignated Breadth (UB).
- Computing Science students automatically fulfill their WQB requirements of 6 UB units with MATH courses and 3 B-Sci units with MACM 101 and 6 W units with CMPT 105W and CMPT 376W. Some WQB courses may fulfill two requirements. Some courses have multiple designations. For complete WQB regulations please refer to: http://www.sfu.ca/ugcr/for_students.html.

UPPER DIVISION REQUIREMENTS:

- **Breadth requirement (15 units)**
  Five courses from the six areas of Table I must be completed. CMPT 300 and 307 are mandatory; in addition to these two, choose three more courses from the other three columns of Table I.

- **Depth requirement (12 units)**
  Four 400-level courses from Table I are required. These are **in addition** to the five breadth courses above (excluding CMPT 415, 416, and 498 which may be included by special permission).

- **Additional units for the BSc, BEd or BA Credential**
  - BSc (9 units). Completion of MACM 316 plus two **additional** courses chosen from Tables I or III.
  - BEd (3 units). One additional CMPT course from Table I or III, to total at least 30 UD CMPT units.
  - BA (3 units*). One additional CMPT course chosen from Table I or III, to total at least 30 UD CMPT units. *To fully complete the BA credential, 15 units must be completed in the Faculty of Arts and Social Sciences (FASS) including at least 6 upper division FASS units.

- **Writing requirement (3 units)**
  CMPT 376W required to satisfy UD W requirements.

Note: The following courses may be counted as being part of Tables I or III with permission of the School: CMPT 318, 415, 416, 496, 497, 498.

ELECTIVE COURSES
Students will have room to take additional elective credits in order to complete 120 credits required for graduation.

FACULTY OF APPLIED SCIENCE RESIDENCY REQUIREMENTS
At least two thirds of the total Upper Division (UD) units in the program must have been completed at Simon Fraser University. Please refer to current SFU calendar for details.

CONTINUATION REQUIREMENTS
Students who do not maintain at least a 2.40 CGPA, will be placed **on probation by the School of Computing Science**. Courses available to probationary students may be limited. Each term, these students must consult an advisor prior to enrollment and must achieve either a term 2.40 GPA or an improved CGPA. **Students who fail to do so may be removed from the program.**

WQB REQUIREMENTS
Students need to complete:
- One Lower Division (LD) Writing Course (CMPT 105W)
- One Upper Division (UD) Writing Course (CMPT 376W)
- 6 units of Breadth Science (B-Sci) (MACM 101 and one other B-Sci)
- 6 units of Breadth Social (B-Soc)
- 6 units of Breadth Humanities (B-Hum)
- 6 units of Undesignated Breadth (UB) (Math 150/151 and Math 152)
Please refer to: http://www.sfu.ca/ugcr/for_students/wqb_requirements/breadth.html for courses that fulfill these requirements.

CO-OPERATIVE EDUCATION
Combines work experience with academic studies—all students are encouraged to apply. Co-op does not count towards academic credits. Co-op is not mandatory; however, three work terms must be successfully completed in order to obtain an undergraduate degree with a co-op designation. For more information about Co-op, please see: http://www.sfu.ca/coop/programs/cmpt/prospective.html.

ADVISING
Drop-In Advising is available at the Surrey and Burnaby campus for students in the Computing Science degree program. Please see the online calendar here https://booking.cs.sfu.ca/adbooking/calendar.cgi to view drop-in times or email asadvise@sfu.ca.

Please bring a copy of your advising transcript (download at go.sfu.ca) with you to the advising session.